UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA

Faculty of Engineering, Built Environment and Information Technology

Fakulteit Ingenieurswese, Bou-omgewing en Inligtingtegnologie / Lefapha la Boetšenere, Tikologo ya Kago le Theknolotši ya Tshedimošo

Department of Chemical Engineering

Undergraduate Degree Programme Information Booklet

Why Choose Chemical Engineering?

2021

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1. Welcome Message from the Head of Department

Welcome to the Department of Chemical Engineering at University of Pretoria. We started our journey in the year of 1959. Over the last six decades, we have grown our expertise and competence in the core Chemical Engineering curriculum and research. Our mission as a Department is to be a second-to-none Chemical Engineering Department recognized for academic excellence and innovative research that empower people to shape the future of the University of Pretoria, South Africa, Africa and developing countries at large, in particular post COVID-19 future. In addition, we are a Chemical Engineering Department that advances education, scholarship, knowledge and understanding through teaching and innovative research for the benefit of the individual, university, society and the world at large.

The strategic goals of the Department, which are described in its 2020-2024 strategic plan, are to achieve Excellence in teaching and learning; Excellence in research and postgraduate supervision; Excellence in administration, engineering training & consultancy services; Sustainability in operational capacity and staff professional development. In actualizing these goals, our department offers science-based engineering curriculum. The primary focus of our curriculum is to impart technical know-how to students, promote their problem-solving skills and innovation of new technologies. The Department offers large number of Honours BEng/BSc courses which provides a wide spectrum of options to the students to pursue their interest. The course contents are periodically updated for introducing new scientific and technological developments.

We have a strong undergraduate program in chemical engineering. At the postgraduate level, we offer HonsBEng/BSc, MEng/MSc by research and PhD degrees in Chemical Engineering or Chemical Technology. Several sponsored candidates from industries and research laboratories carry out their postgraduate studies in our department. Beside this, our department hosts postdoctoral fellows and visiting researchers.

Innovation, in particular technological innovation, is assumed to drive improvement in socio-economic growth of a nation. Therefore, our research foci in the Department harness the strong research activities existing in the Department for knowledge creation and human capacity development for sustainable technological solutions that improve socio-economic situation of South Africa, Africa and developing settings, especially post COVID-19. The knowledge and tools generated via the Departmental research foci are globally relevant, while their applications are often embedded in the local context for benefit of societies in South Africa, Africa and the developing countries. In addition, the departmental research foci intend to build interdisciplinary research activities that ground sustainability in energy, environment & sanitation, clean water production and utilization, food production, and advanced & applied materials in their socio-economic context to ensure relevance and impact post COVID-19, particularly in developing nations. The research activities in the Department have a two-fold focus with a good balance between fundamental research and industrial application aiming at proffering solutions to various socio-economic problems mitigating sustainability in the aforementioned areas in South Africa, Africa and the

developing nations. Thus, the research activities of the Department aim at knowledge creation and human capacity development in Sustainable environment and water utilization processes; sustainable and efficient energy processes; advanced and applied materials; and process modeling, control and optimization. Our department maintains active research groups for carrying out collaborative and interdisciplinary research. The Department is a home to state-of-the-art research facilities to support our academic programs and research. We have a distinguished record in both teaching and research. Lecturers and researchers in the Department have excellent academic credentials and are highly regarded. Several academic members serve on the editorial boards of national and international journals, review technical articles for journals on a regular basis, and organize international symposia and conferences.

As much as COVID will impact your year of study at UP, I would like to reassure our undergraduate students that we empathize with you and we are resolutely committed to delivering a program that will fulfil your degree requirements and inspire you to pursue research or career opportunities in Chemical Engineering. As a team in the Department, we are working flat out to redesign labs and modules for online delivery and also planning for in-class instruction, especially with labs, wherever we can. If there is a silver-lining to COVID, it is that we have been forced to reimagine how we can teach chemical engineering in a compelling way that goes beyond the traditional mode of classroom-based learning.

In closing, I will like to emphasize that Department of Chemical Engineering at UP is a very vibrant department and there are lots of opportunities afforded to students while studying here. The many open lectures, seminars and other events which will be held throughout the duration of your programme, alongside the excellent resources of our Information Services Centre, will supplement your formal programme of study. Please accept my warm welcome. It is expected that your decision to join us will culminate into your transition into becoming one of the members of the “Leading Minds”, the alumni of UP, that Make Today Matter.

Prof Michael O. Daramola

Professor and Head: Department of Chemical Engineering

2. Introduction: Why choose Chemical engineering?

The American Institution of Chemical Engineers (AICHE) defines chemical engineering as a branch of engineering that is concerned with the application of physical and natural sciences that is gained through study, experience, and practice with good judgment to develop economic ways of using materials and energy for the benefit of humankind. Thus, the discipline involves all aspects of the industrial processes that, in the broadest sense, convert raw materials into higher-value products using combinations of physical, chemical, thermal, biochemical and mechanical changes.

Chemical engineers apply their specialised knowledge in the petroleum, food, minerals processing, power generation and the paper and pulp industries, water and effluent treatment, and environmental engineering activities, including air pollution control. Like those in other engineering disciplines, chemical engineers are involved in research and development, techno-economic evaluation, equipment and plant design, process control and optimisation, construction, commissioning, operation and management, and the marketing and distribution of the final products.

3. Career opportunities

Chemical engineers are increasingly making their unique abilities available in areas as diverse as the automotive industry and the biomedical field, in addition to the traditional areas where their unique approach and understanding of the relevant principles lead to development in the petroleum, minerals, paper, food and textile industries. These industries are collectively referred to as the process industries, which is why chemical engineers are often called process engineers. Water purification and water treatment, biorefinery/waste valorisation, the design and operation of such processes and the protection of the environment from pollution are further areas in which chemical engineers make invaluable contributions.

One of the characteristic qualities of chemical engineers is their ability to examine an engineering problem at different levels, from using their detailed knowledge to manipulate the behaviour of molecules under very specific conditions applying their expertise to study and explain the effect of large chemical plants on a country's economy and environment. Apart from the opportunity to be part of a team that successfully plans, designs and operates large processing plants, chemical engineers can also specialise in the development and application of advanced computer-based methods to design, control and optimise processes.

4. Chemical Engineering at UP

The Faculty of Engineering, Built Environment and Information Technology at the University of Pretoria is a leading source of graduates in the engineering, built environment and information technology professions. The Faculty is organised in four schools; the School of Engineering, the School for the Built Environment, the School of Information Technology and the Graduate School of Technology Management.

The School of Engineering is the largest of its kind in the country in terms of student numbers, graduates and research contributions and offers programmes in all the major engineering disciplines with many specialisations also offered at undergraduate and graduate level. It is in the School of Engineering that the Department of Chemical Engineering falls under.

It is the aim of the Department to produce graduates who are capable of contributing to the growth of the country, who are well-equipped to apply their understanding of chemical engineering principles to the many challenges and opportunities locally, but who can also make significant contributions in the international arena. Our accredited undergraduate program is recognised internationally by the co-signatories of the Washington Accord. About 100 students graduate annually with a BEng-degree in Chemical Engineering. This qualification is fully accredited by ECSA (Engineering Council of South Africa) enabling registration of graduates as Candidate Engineer and after the required exposure to industry, for application to register as Pr.Eng.

We believe that specialisation can only follow on a sound foundation - that is why our undergraduate curriculum ensures that this requirement is met. Our focus groups are mutually supportive, address the cutting-edge research questions of the day and put a strong focus on issues related to energy, biotechnology and the environment. At postgraduate level, our department specialises in: Sustainable Environment and Water Utilisation Processes, Sustainable and Efficient Energy Processes, Advanced and Applied Materials, and Process Modelling, Control and Optimisation. More information on Departmental research focus areas can be obtained in the postgraduate information booklet.

A solid foundation in chemistry, physics, mathematics and biology is combined with the principles of the conservation of mass, energy and momentum, followed by the application of the economic tenets when designing equipment so as to ensure lucrative processes that will contribute to economic and industrial growth. The programme is aimed at producing graduates who can develop new and innovative processes, ensuring continued growth to satisfy the abovementioned needs.

In addition to producing sought-after graduates in chemical engineering, we conduct research that has led to world-class contributions/innovations in Sustainable Environment and Water Utilisation Processes, Sustainable and Efficient Energy Processes, Advanced and Applied Materials, and Process Modelling, Control and Optimisation.

Both male and female aspirants with widely divergent interests and temperaments can find themselves in interesting and challenging careers in chemical engineering. Many projects require teamwork, where the ability to act as a team member and as a team leader is important. In line with promoting gender equality, the number of females in our student complement is continuously growing. In the past three years, 40% of the Department's graduates were female.

4.1 What does the programme entail?

The programme is a BEng (Chemical Engineering) which takes a minimum duration of 4 years to complete (full-time).

The programme provides you with the necessary foundation to ensure that once you graduate, you will be able to make creative contributions to the world's ever-increasing needs by:

- converting natural resources into efficient and useable forms of energy;
- developing more durable, lighter and renewable materials;
- designing more efficient, environmentally friendly processing plants;
- applying biotechnology to convert raw materials into products in a sustainable way;
- designing processes to ensure that limited natural resources, such as water, can be reused; and
- leaving a clean and sustainable environment behind for future generations.

4.2 Courses in the programme

First year of study
First semester

Module		Credits	Prerequisites
Fundamental			
UPO 112	Academic orientation 112	1	
Core			
CHM 171	General chemistry 171	16	
CIR 113	Chemical engineering 113	8	
FSK 116	Physics 116	16	
HAS 110	Humanities and social sciences 110	8	
MGC 110	Graphical communication 110	16	
WTW 158	Calculus 158	16	
	Total	**80**	

Second semester

CHM 181	General chemistry 181	16	CHM 171
CIR 123	Chemical engineering 123	8	CHM 171GS, CIR 113
EBN 122	Electricity and electronics 122	16	
HAS 120	Humanities and social sciences 120	8	
SWK 122	Mechanics 122	16	WTW 158
WTW 164	Mathematics 164	16	WTW 158 GS
	Total	**80**	

Recess training

WWP 121	Workshop practice 121	6	

Second year of study
First semester

Module		Credits	Prerequisites
CHM 215	Chemistry 215	12	CHM 171/172, 181
CIR 211	Chemical engineering 211	12	CIR 123
CIM 210	Chemical engineering materials 210	8	CHM 181
JCP 203	Community-based project 203	8	
MPR 213	Programming and information technology 213	16	
SWK 210	Strength of materials 210	16	SWK122, WTW 164/ WTW 161, 168
WTW 256	Differential equations 256	8	WTW 158, WTW 164/ WTW 161, 168
WTW 258	Calculus 258	8	WTW 158, WTW 164/ WTW 161, 168
	Total	**88**	

Second semester

BES 220	Engineering statistics 220	8	
CHM 226	Chemistry 226	8	CHM 171/172, 181
CTD 223	Thermodynamics 223	16	CIR 211, MPR 212/213 (WTW 258)
EIR 221	Electrical engineering 221	16	EBN 111/122

WTW 238	Mathematics 238	16	WTW 258 GS, WTW 256
WTW 263	Numerical methods 263	8	WTW 164/ WTW 161, 168
	Total	**72**	

Third year of study
First semester

Module		**Credits**	**Prerequisites**
BSS 310	Engineering management 310	8	
CIR 310	Chemical engineering 310	8	(CTD 223), CHM 215
CJJ 310	Professional and technical communication 310	8	CIR 123
CMO 310	Mass transfer 310	16	(CTD 223), COP 311#
COP 311	Transfer processes 311	16	WTW 238, (WTW 263)
CBI 310*	Biochemical Engineering 310	16	(CIR 211), (CHM 215)
	Total	**72**	

Second semester

CIO 320	Chemical engineering design 320	16	(CTD 223), SWK210, (COP 311)
CKN 321	Kinetics 321	16	(CTD 223)
CLB 321	Laboratory 321	16	CJJ 210/CJJ 310, CHM 226, CPN 321#, CKN 321# (CMO 320/310), CIO 320/310#
CPN 321	Process dynamics 321	16	CIO 310/320#, CKN 321#
MIA 320	Engineering activity and group work 320	8	(CJJ310), (BSS 310)
	Total	**72**	

Recess training

CPY 311	Practical training 311	16	(CIR 211)

Fourth year of study
First semester

Module		**Credits**	**Prerequisites**
CPA 410*	Particle technology 410	16	(COP 311)
CPB 410	Process control 410	16	CPN 321 GS
CPS 410	Process synthesis 410	8	CLB 321, CIR 310 GS
CRO 410	Reactor design 410	16	CKN 321 GS
CSC 411	Research project 411	16	CLB 321, CPB 410#, CRO 410#
	Total	**72**	

Second semester

CPJ 421	Design project 421	24	(CPB 410), (CRO 410), BIE 310/BSS 310, CIO320, CPS 420#, CPR 420#
CPR 420	Chemical engineering practice 420	8	CLB 321, CPJ 421#
CPS 420	Process analysis 420	8	CPS 410
CSC 421	Research project 421	16	CSC 411
CSS 420	Specialisation 420	16	CPJ 421#
	Total	**72**	

Recess training

CPY 411	Practical training 411	16	(CMO 320/310), CPY 311

***Detailed information on all the courses offered in this programme is found in the yearbook**
(https://www.up.ac.za/yearbooks/2021/programmes/view/12130002)

5. Admission requirements

Prospective students are advised to ensure that they comply with the Admission Requirements as set out for the year in which they wish to apply, as this may differ from the current yearbook information.

The closing date is an administrative admission guideline for non-selection programmes. Once a non-selection programme is full and has reached the institutional targets, then that programme will be closed for further admissions, irrespective of the closing date. However, if the institutional targets have not been met by the closing date, then that programme will remain open for admissions until the institutional targets are met. The following persons will be considered for admission:

- Candidates who are in possession of a certificate that is deemed by the University to be equivalent to the required National Senior Certificate (NSC) with university endorsement; candidates who are graduates from another tertiary institution or have been granted the status of a graduate of such an institution, and candidates who are graduates of another faculty at the University of Pretoria.
- Life Orientation is excluded when calculating the APS.
- Grade 11 results are used for the conditional admission of prospective students.
- A valid qualification with admission to degree studies is required.
- Minimum subject and achievement requirements (https://www.up.ac.za/programmes/programme/12130002/year/2021)
- Conditional admission to the four-year programmes in the School of Engineering is guaranteed only if a prospective student complies with ALL the requirements.
- Admission to ENGAGE in the School of Engineering will be determined by the NSC results, achievement levels of 5 for Mathematics and 5 for Physical Sciences, and an achievement level of 5 for English, together with an APS of 30.
- Students may apply directly to be considered for the ENGAGE programme.
- All lectures at the University of Pretoria are presented in English only.

Note: The Engineering Council of South Africa (ECSA) accredits our programme and our degree meets the requirements for Professional Engineers in SA (and for Chartered Engineer status of UK (C.Eng.) or any other country).

Transferring students

Candidates previously registered for the BSc – Extended programme

The Admissions Committee of the faculty considers applications of candidates who were previously registered for the BSc – Extended programme, on grounds of their NSC results as well as academic merit. Such students will only be considered for the four-year programme if they have passed all the prescribed modules and obtained a minimum of 65% in the Mathematics, Physics and Chemistry modules, respectively.

Candidates previously registered at UP or at another university

The faculty's Admissions Committee considers applications of candidates who have already completed the final NSC examination and/or were previously registered at UP or at another university, on grounds of their NSC results as well as academic merit. Candidates who were dismissed from other faculties or universities will not be considered**.**

Candidates previously registered at a teacher's college or university of technology

The faculty's Admissions Committee considers the application of these candidates on the grounds of their NSC results as well as academic merit.

Qualifications from countries other than South Africa

- Citizens from countries other than South Africa and South African citizens with foreign qualifications must comply with all the other admission requirements and the prerequisites for subjects/modules.
- In addition to meeting the admission requirements, it may be expected from candidates to write the **TOEFL**, **IELTS** or **SAT**, if required.
- Candidates must have completed the National Senior Certificate with admission to degree studies or a certificate of conditional exemption on the basis of a candidate's foreign qualifications, the so-called "Immigrant" or "Foreign Conditional Exemption". The only condition for the "Foreign Conditional Exemption" that is accepted is: 'completion of the degree course'. The exemption certificate is obtainable from Universities South Africa (USAf) (https://mb.usaf.ac.za)

More undergraduate programme information can be found by following the link below; https://www.up.ac.za/students/article/2749263/admission-information.

6. Facilities & resources available to support your learning

6.1 Campus life

Your academic success is important, but university life is also about having fun and exploring your talents to be a well-rounded graduate who is ready for the world beyond university. At the University of Pretoria (UP), we have a vibrant student life and there are many arts, cultural, sporting, and even academic extramural activities that you can participate in. We encourage all our students to give back and build up experience through our community engagement projects. Click on the following links for more information;

General student information	https://www.up.ac.za/students
Frequently Asked Questions for current students	https://www.up.ac.za/media/shared/7/ZP_Galleries/Undergraduate/2021-ebit-existing-students.zp198982.pdf
Virtual campus	https://virtualcampus.up.ac.za/
Campus maps and directions	https://www.up.ac.za/article/2749435/campuses-maps-directions
Accommodation and restaurants	https://www.up.ac.za/article/2749423/accommodation-and-places-to-eat
Campuses	https://www.up.ac.za/article/2749435/campuses
Transport and getting to campus	https://www.up.ac.za/article/2749763/transport-and-getting-to-campus
Safety on campus	https://www.up.ac.za/department-of-security-services/article/23390/safety-on-campus
Health and well being	https://www.up.ac.za/article/2749577/health-well-being
Disability unit	https://www.up.ac.za/disability-unit
Student development	https://www.up.ac.za/student-development
WIFI	https://www.up.ac.za/up-wireless-network/article/277134/wifi-coverage-maps-campus-view
Guides and resources	https://www.up.ac.za/students/article/2747932/guides-and-resources
Things to do	https://www.up.ac.za/article/2749949/things-to-do
TuksSport	https://www.up.ac.za/tukssport
Arts, culture and museums	https://www.up.ac.za/article/2749571/arts-culture-and-museums

6.2 University calendar

For university announcements please make sure to read announcements by e-mail, UP Webpage, **ClickUP** on a daily basis.

Click on the following link for more information; https://linus.up.ac.za/calendars/

6.3 Self-help guides

These guides have information on how to use university resources such as how to access the **UP Portal**, **ClickUP** and tracking your applications. Click on the following link for more information; https://www.up.ac.za/students/article/2745903/self-help-guides.

6.4 Fees, Financial aid and Funding

Programme	1st year	2nd year	3rd year	4th year
BEng (Chemical Engineering) *	R56 000	R62 000	R67 000	R50 000

***Fees in 2020**
***Fees do not include the cost of prescribed books, stationery or other study-related expenses**

- Payment dates 2021: The 50% (half of the account) due date on 30 April has been extended until 30 June 2021. The deadline for payments due on 31 July (full payment of the account) has also been extended by 2 months to 30 September 2021. The 30 April payment date for the 2.5% discount will remain.
- Non-South African citizens should follow the link below and notes are available at the International Fees icon for an estimation of their tuition.

https://www.up.ac.za/student-fees/article/2735910/undergraduate-tuitionfees-per-faculty

- Estimated tuition fees quotations per year for SA and SADC countries are available to students as a **self-help** function.

Funding takes the form of bursaries, scholarships and loans. There are financial aid options available through the NSFAS, in the form of a bursary which is not repayable. There are also bursaries available, which are generally given based on academic merit. Please remember to take note of the opening and closing dates to apply for each of the funding options and the dates when fees are due**.** Click on the following links for more information;

https://www.up.ac.za/student-fees/article/2735940/up-bank-details

https://www.up.ac.za/student-funding

https://www.up.ac.za/article/2894107/financial-aid

6.5 International students

The University of Pretoria enhances its international standing through multifaceted internationalisation programmes. The programmes are facilitated and coordinated by the International Cooperation Division (ICD), which is part of the Department of Research and Innovation. The ICD ensures that the doors of UP are always open to international students, academics, administrative staff, collaborative researchers, policymakers, funding organisations and other stakeholders. The contact centre email is; isd@up.ac.za . Click on the following links for more information;

https://www.up.ac.za/international-cooperation-division

https://www.up.ac.za/international-cooperation-division/article/2604084/-indicator-ss2-removal

https://www.up.ac.za/international-cooperation-division/article/2512078/visa

https://www.up.ac.za/international-cooperation-division/article/2512092/medical-cover-

https://www.up.ac.za/student-fees/article/2746297/international-student-fees

6.6 Library services

This has information on the university services such as search databases, plagiarism policies, access to e-books, journals, exam papers, printing and photocopying etc. Click on the following link for more information; http://www.library.up.ac.za/

6.7 Yearbooks

The Yearbook is there to provide registered students with information about their degree programmes. This includes admission requirements, the curriculum, as well as specific details regarding the programme. Important information about the modules, such as credit value, contact time and prerequisites, are all listed. It also includes faculty-specific information as well as the General Regulations and Rules, which students should take note of to ensure they make a success of their studies. Click on the following link for more information; https://www.up.ac.za/yearbooks/2021/programmes/view/12130002

7. Chemical Engineering Department Staff

Our Department, headed by Prof Michael Daramola, has a group of excellent and enthusiastic lecturers, with a passion for teaching and research.

1	**Daramola, M.O.** Room 8-21	C.Eng BSc(Hons), MScEng (OAU) MSc (WUR) PhD(SU) PGDip (HE) (Wits) MIChemE MSAIChE MNSE Reg..Eng. (COREN) MEFB MIAEng Engineering I Building	Professor (Head of Department) michael.daramola@up.ac.za Tel: 012 420 2475
2	**De Vaal, P.L.** Room 8-11	PrEng BEng(Hons) MEng(Pret) PhD(Pret) FSAIChE MSAIT MSTLE Engineering I Building	Professor Emeritus philip.devaal@up.ac.za Tel: 012 420 6748
3	**Chirwa, E.M.N.** Room 1-28	PrEng (SA), PE (MD-USA), MSc (UKY), PhD (UKY), MSAICE, MASCE, MAWWA, MWISA Water Utilisation Engineering, Building 2, South Campus	Professor (Sedibeng Water Chair) evans.chirwa@up.ac.za Tel:012 420 5894
4	**Brink, H.G.** Room R1-25	 Water Utilisation Engineering, Building 2, South Campus	Senior Lecturer deon.brink@up.ac.za Tel: 012 420 3569
5	**Crouse, P.L.**	PhD (UP), MSc (UCT) BSc (Hons) (UCT) BSc (UCT); HED (UKZN); BA (Unisa)	Professor Emeritus philip.crouse@up.ac.za
6	**Du Plessis B.J.G.W.** Room 8-16	Pr Eng MEng(Pret) MDP(Unisa) MSAIChE Engineering I Building	Senior Lecturer Tel: 420-3740
7	**Du Toit, E.L.** Room 8-15	PrEng BEng(Hons)(Pret) MEng(Pret) MSAIChE Engineering I Building	Senior Lecturer elizbe.dutoit@up.ac.za Tel.: 012 420 3641
8	**Focke, W.W.**, Room 8-26(a)	BEng(Hons) MEng(Pret) Dip Data(Unisa) PhD(MIT) MSAIChE Engineering I Building	Professor (Director: Institute of Applied Materials) walter.focke@up.ac.za Tel: 012 420 2588
9	**Heydenrych, M.D.** Room 8-18	PrEng, C.Eng., MSc(Eng)(Wits) PhD(Twente) MDP(Unisa) FSAIChE, FIChemE Engineering I Building	Associate Professor mike.heydenrych@up.ac.za Tel: 012 420-2199
10	**Labuschagne, FJWJ** Room 8-14	BEng(Hons)(Pret) MEng(Pret) PhD(Pret) MSAIChE Engineering I Building	Professor johan.labuschagne@up.ac.za Tel: 012 420 3020
11	**Kornelius, G** Room 1-26.1	PrEng BEng(Hons)(Pret) MBA (Pret) PhD (Pret) FSAIChE Building 2, South Campus	Senior Researcher gerrit.kornelius@up.ac.za Tel: 012 420 3741
12	**Merckel, R** Room 8-11	BEng, BEng(Hons), MEng, PhD (Pret.) Engineering I Building	Senior Lecturer Tel: 076 220 5069
13	**Musee, N**	B.Ed (Hons)(Maths/Physics)(Egerton Univ.Kenia), MSc (Physics) (Univ.Botswana), PhD	Professor

	Room 8-10	(Chem.Eng.Science)(Univ. Stellenbosch) Engineering I Building	ndeke.musee@up.ac.za Tel: 012 420 3048
14	**Nicol, W.** Room 8-17	PrEng BEng(Pret) PhD(Wits) MSAIChE Engineering I Building	Professor willie.nicol@up.ac.za Tel.: 012 420 3796
15	**Ramjee, S**	BEng(Chem)(Pret), MEng(Pret.), PhD (Pret.)	Senior Lecturer (Shared with Metallurgical Engineering)
16	**Rand, B.**	MSc (Durham) PhD (Newcastle) FIM	Extraordinary Professor
17	**Sandrock, C.**	BEng (Pret), MEng (Pret), Pr. Eng., MSAIChE, MIChemE	Extraordinary Lecturer carl.sandrock@up.ac.za
18	**Tichapondwa, S** Room 1-16	BEng (NUST),BEng (Hons), MEng (Pret), PhD (Pret) Water Utilisation Engineering, Building 2, South Campus	Senior Lecturer shepherd.tichapondwa@up.ac.za Tel: 012 420 3741
19	**Mokwatlo, SC** Room 8-12	BEng, BEng(Hons), MEng, PhD (Pret.) Engineering I Building	Lecturer Tel: 012 420 4903 Segketho.Mokwatlo@up.ac.za
20	**Iwarere, S**	BSc, BEng(Hons), MEng, PhD (UKZN) Building 2, South Campus	Senior Researcher Samuel.Iwarere@up.ac.za
21	**Sonnendecker, P** Room 8-13	BEng, BEng(Hons), MEng, Engineering I Building	Researcher paul.sonnendecker@up.ac.za Tel: 012 420 3161
22	**Van Vuuren, DS**	BEng(Hons)(Pret) MEng(Pret) PhD(Pret) FSAIChE Engineering I Building	Associate Professor dawie.vanvuuren@up.ac.za Tel: 012 420 3568
23	**Mrs Elmarie Otto** Room 1-26	Building 2, South Campus	Departmental Administrator (South Campus Wing) elmarie.otto@up.ac.za Tel: 012 420 3824
24	**Mrs Alette Devega** Room 1-14	Building 2, South Campus	Senior Technical Assistant alette.devega@up.ac.za Tel: 012 420 4206
25	**Dr Isbe van der Westhuizen**	PhD (Pret) Engineering 2 Building	Control Instructor/Lab Manager isbe.vanderesthuizen@up.ac.za Tel: 012 420 4206
26	**Ms Gymaisy Kenny** Room 8-20	Engineering 1 Building	Departmental Administrator (General Administration & UG Administration) Gymaisy.Kenny@up.ac.za Tel: 012 420 4206
27	Mr Keabetswe Tjale Room 8-20	Engineering 2 Building	Chief Messenger u14186889@up.ac.za
28	Ms Olga Shokane Room 8-26(b)	Engineering 1 Building	Departmental Administrator (Finance & PG Administration) Olga.shokane@up.ac.za

8. Contact details

To contact the University during the COVID-19 lockdown, please send an email to ssc@up.ac.za. If you would like more information on academic programmes or have any other queries, concerns or need general help and guidance, we're glad to help you. Please use the links provided in this document to help you to find the contact information you're looking for.

Some of the relevant links and contact details specific to the faculty and department are listed below;

Faculty Student Advisors	https://www.up.ac.za/faculty-of-engineering-built-environment-it/article/2951500/faculty-student-advisors
Undergraduate Coordinator: Applications and admissions	Ms J van Rooyen, **Tel:** +27 (0) 12 420 5166 **Email:** jvr2@up.ac.za
Undergraduate Coordinator: Student Administration	Ms E Willemse, **Tel:** +27 (0)12 420 2724, **Email:** izette.willemse@up.ac.za
EBIT Administration Department:	**Tel:** +27 12 420 3011
General Enquiry Fax Number:	**Tel:** +27 12 420 5048
General Enquiry E-mail Address:	chemeng@up.ac.za

Physical Address:

Department of Chemical Engineering
Engineering I Building, Room 8-21
University of Pretoria
Lynnwood Road
Hatfield
Pretoria

Postal Address:

Department of Chemical Engineering
University of Pretoria
Private Bag X20 Hatfield
Pretoria
0028
South Africa